

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A reconfigurable input/output controller (IOC) coupled to a plurality of nodes in an adaptive computing engine, wherein the coupling includes an interconnection network, the reconfigurable IOC comprising:

at least one input coupled to the interconnection network for receiving a point-to-point transfer instruction; and

at least one output for providing a translated point-to-point transfer instruction to an external device.

2. (Canceled)

3. (Canceled) The IOC of claim 2, wherein the adaptive computing engine includes an interconnection network, wherein the external device is included in an external system, the IOC further comprising

at least one input coupled to the interconnection network.

4. (Withdrawn) A physical link adapter comprising
a first configurable coupling to a first connector, wherein the first connector receives a first set of signals of a first communication type;

a second configurable coupling to a second connector, wherein the second connector receives a second set of signals of a second communication type; and

a controller for selectively applying an output of either the first or second configurable coupling to a common bus.

5. (New) The reconfigurable IOC of claim 1, wherein a translated point-to-point transfer instruction provides translation of a port number from the adaptive computing engine to the external device.

6. (New) The reconfigurable IOC of claim 1, wherein a translated point-to-point transfer instruction provides translation of an address from the adaptive computing engine to the external device.

7. (New) The reconfigurable IOC of claim 1, further comprising Peek/Poke service circuitry.

8. (New) The reconfigurable IOC of claim 1, further comprising memory random access circuitry.

9. (New) The reconfigurable IOC of claim 1, further comprising direct memory access circuitry.

10. (New) The reconfigurable IOC of claim 1, further comprising real time input circuitry.

11. (New) The reconfigurable IOC of claim 1, further comprising a status line coupled to the external device for indicating an availability of services.

12. (New) The reconfigurable IOC of claim 1, further comprising a physical link adapter coupled to an input of the configurable IOC.

13. (New) The reconfigurable IOC of claim 12, further comprising;
coupling circuitry coupled to the physical link adapter; and
a plurality of different physical connectors coupled to the coupling circuitry.

14. (New) The reconfigurable IOC of claim 13, further comprising:
a reconfigurable finite-state machine for controlling the coupling circuitry to selectively connect a signal from a physical connector.